SB 4 INTERIM WELL STIMULATION TREATMENT REGULATIONS

NOTICE OF REQUEST FOR READOPTION OF EMERGENCY RULEMAKING ACTION

REGARDING

TITLE 14. NATURAL RESOURCES

DIVISION 2. DEPARTMENT OF CONSERVATION

CHAPTER 4. DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

Notice Published June 12, 2014

NOTICE IS HEREBY GIVEN that the California Department of Conservation (Department) will be requesting readoption of the *SB 4 Interim Well Stimulation Treatment Regulations* emergency regulations necessary to implement SB 4, Chapter 313, Statutes of 2013. These emergency regulations were originally approved by the Office of Administrative Law (OAL) on December 30, 2013, and became effective on January 1, 2014. (OAL File No. 2013-1219-01E.) This action is being taken in accordance with Government Code Sections 11346.1 and 11349.6 of the California Administrative Procedures Act, and California Code of Regulations, title 1, section 52. The request for readoption of the emergency regulations will be submitted to OAL on June 20, 2014, with an intended effective date of July 1, 2014.

DILIGENT ADOPTION OF PERMANENT REGULATIONS

Since the adoption of the emergency regulations, the Department has made substantial progress and has proceeded with diligence in the adoption of permanent regulations regarding well stimulation treatment, as required under SB 4. The Department is in the process of adopting permanent regulations in a rulemaking action entitled SB 4 Well Stimulation Treatment Regulations. (OAL File No. Z-2013-1105-01.) A public comment period on the proposed permanent regulations was held from November 15, 2013 through January 14, 2014, pursuant to the Notice of Proposed Regulatory Action mailed to interested parties and published in the California Regulatory Notice Register on November 15, 2013 (Register 2014, No. 46-Z, 11/15/2013). Public comments were also

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accepted orally and in writing at five public comment hearings conducted around the state during the public comment period.

The Department received a very high volume of input during the public comment period and has dedicated a substantial amount of staff time to organizing and considering the input received. In addition to the input received through the public comment process, the Department has been in ongoing consultation with other state agencies, including Department of Toxic Substances Control, the State Air Resources Board, the State Water Resources Control Board, and the Department of Resources Recycling and Recovery.

The Department is in the process of developing revisions to the proposed regulations based on the input received through the public comment process and the Department's consultation with other state agencies. The Department anticipates making revisions to the proposed regulations available for public comment in the near future. Although the Department considers the contemplated revisions to be sufficiently related changes as defined in California Code of Regulations, title 14, section 42, the Department intends to allow at least 45 days for public comment on the revisions to the proposed permanent regulations.

PUBLIC COMMENT

If you wish to comment on the readoption of the emergency regulations, you must submit the comment directly to OAL within five calendar days of OAL's posting of the proposed emergency regulations on the OAL Web site. You may submit comments on proposed emergency regulations to:

Mail:

OAL Reference Attorney 300 Capitol Mall, Suite 1250 Sacramento, California 95814

Fax:

(916) 323-6826

E-mail:

staff@oal.ca.gov

When you submit a comment to OAL, you must also submit a copy of your comment to the Department:

Mail:

Department of Conservation 801 K Street, MS 24-02 Sacramento, CA 95814

ATTN: SB 4 Interim Well Stimulation Treatment Regulations

Fax:

(916) 324-0948

E-mail:

DOGGRRegulations@conservation.ca.gov

OAL will confirm that the agency has received the comment before considering it. Pursuant to California Code of Regulations, title 1, section 55, subdivision (b) (1) through (4), the comment must state that it is about an emergency regulation currently under OAL review, and include the topic of the emergency.

Adoption of emergency regulations does not require response to submitted comments. Any response to comments from the Department will be submitted to OAL within eight calendar days following the date of submission of the proposed emergency regulation to OAL, unless specific exceptions are applicable.

FINDING OF EMERGENCY

Government Code section 11346.1, subdivision (b), allows a state agency to adopt emergency regulations if the agency makes a finding that the adoption of a regulation is necessary to address a situation that calls for immediate action to avoid serious harm to the public peace, health, safety, or general welfare. The emergency circumstances are unchanged since the initial adoption of the emergency regulations, and the Department of Conservation continues to find that the emergency adoption of regulations regarding the interim procedures for well stimulation treatment under the recently enacted Senate Bill 4 is necessary for the immediate preservation of the public peace, health and safety, or general welfare, as explained below.

Basis for the Finding of Emergency

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- On September 20, 2013, Governor Brown signed into law Senate Bill 4 (Pavley, Chapter 313, Statutes of 2013) (SB 4), which takes effect January 1, 2014. SB 4 complements existing rules that require some of the strongest well construction and operation standards in the nation by enacting further safeguards to public health and safety and the environment regarding the practices known as well stimulation treatment.
- SB 4 requires a permit from the Division of Oil, Gas and Geothermal Resources to conduct well stimulation treatment. The permit application must include detailed information about the fluids to be used, a ground water monitoring plan, and a water management plan. Copies of an approved permit must be sent to neighboring property owners and tenants, and water well testing must be provided upon request. SB 4 requires the Division to prepare regulations to ensure that well stimulation is done safely and to require detailed public disclosure about the well stimulation.
- SB 4 includes Public Resources Code section 3161, which provides for an interim grace period from SB 4's permitting requirement until the new regulations required under SB 4 are in effect. Section 3161, subdivision (b), directs the Division to allow well stimulation treatment while the regulations are being developed, provided that the operator certifies compliance with specified requirements in SB 4.
- Action is necessary in order to implement, on an emergency basis, the provisions of Public Resources Code section 3161. Several of the requirements for the interim certificate of compliance are subject to interpretation and would be difficult to implement in the absence of interpretive regulations. In addition, the Division must clarify the definition of "well stimulation treatment" and establish thresholds in order to resolve questions as to which operations are subject to the new requirements.
- The Legislature specifically contemplates that the emergency rulemaking process will be used to implement the interim provisions of Public Resources Code section 3161. Subdivision (b)(6) of that section specifically states, "The division has the emergency regulatory authority to implement the purposes of this section." This provision is an express legislative finding that emergency adoption is appropriate for the regulations implementing the interim certificate of compliance for well stimulation treatment.
- Without the implementation of emergency regulations, as of January 1, 2014, the interim certificate of compliance requirements will go into effect without specific guidance or parameters. This would result in a lack of clarity that would make it difficult for the regulated industry to comply with the interim requirements and difficult for the Division to enforce them.

- In Section 1 of SB 4, the Legislature finds and declares that, "Providing transparency and accountability to the public regarding well stimulation treatments, including, but not limited to, hydraulic fracturing, associated emissions to the environment, and the handling, processing, and disposal of well stimulation and related wastes, including from hydraulic fracturing, is of paramount concern." Lack of certainty as to what is required under the interim certification of compliance process would result in uneven compliance with some or all of the requirements, and would therefore undermine the express intent of SB 4.
- California is one the nation's largest oil gas producer and oil and gas production is a significant contributor to the state's economy and its energy supply. In Section 1 of SB 4, the Legislature finds and declares that, "The hydraulic fracturing of oil and gas wells in combination with technological advances in oil and gas well drilling are spurring oil and gas extraction and exploration in California. Other well stimulation treatments, in addition to hydraulic fracturing, are also critical to boosting oil and gas production." Oil and gas production involves substantial advance planning and investment and a lack of certainty as to what is required under the interim certification of compliance process would be disruptive for this important industry.
- The Division anticipates well stimulation activity to increase in 2014, just as it increased during the prior year. The Division has been advised by the Western States Petroleum Association that in 2012, their members had done about 650 well stimulation treatments in California. Then, between June 30, 2012 and June 30, 2013, almost 1,000 well stimulation treatments were undertaken. In December 2013, the Division received over 160 well stimulation treatment applications from operators anticipating the new requirements of SB 4 and seeking to complete work in the first 4-6 weeks of the new year.
- Regulations are necessary to clarify interpretation of the underlying statute. Under SB 4, operators are required to provide neighbors with 30 days advance notice of well stimulation treatment and offer to conduct water well testing, and Public Resources Code section 3160, subdivision (b)(1)(C), directs the Division to promulgate regulations to implement these notice requirements. Although SB 4 does not require the Division to have such regulations in effect until January 1, 2015, operators must comply with these requirements as of January 1, 2014. The absence of implementing regulations for neighbor notification and water well testing would result in serious harm to public peace, health and safety, or general welfare because uncertainty regarding how to comply with this central requirement could disrupt operators' ability to proceed with well stimulation treatment. The uncertainty could also result in inadequate

neighbor notification, which could in turn result in failure to provide water well testing where it would have been desired.

- In addition to compliance with the neighbor notification, the interim process of Public Resources Code section 3161 requires operators to certify compliance with various requirements of Public Resources Code section 3160. Many of these requirements are subject to interpretation in key regards. Some have expressed the view that regulations for well stimulation treatment in 2014 are not needed that the provisions of section 3161, subdivision (b), are sufficiently clear to leave individual operators to select, either individually or collectively, their own method for compliance. The Division does not share this view. The scope of the requirements imposed by section 3161 is sufficiently complex that a single approach, spelled out in regulation, is needed to assure a uniform approach to compliance by all operators seeking to perform well stimulation treatments. The absence of implementing regulations establishing a uniform approach to compliance would result in serious harm to public peace, health and safety, or general welfare because key requirements of SB 4 might be circumvented under differing interpretations of the statute.
- One important requirement that is subject to interpretation in key regards is the requirement that operators certify compliance with SB 4's groundwater monitoring plan requirements. Some operators have indicated to the Division that under their interpretation of SB 4 provisions governing the State Water Boards completion of groundwater monitoring criteria and model monitoring planning, groundwater monitoring requirements might not be required before July 1, 2015. This was not the apparent intent of the Legislature or the Governor in enacting SB 4. Absent a clear regulation on January 1, 2014, operator compliance with the groundwater monitoring provisions might only occur after lengthy legal debate and adjudication. Protection of important groundwater resources requires emergency implementation, particularly given public, Legislative, and Administration expectation that SB 4 provides that protection as of January 1, 2014.
- Requirements for public disclosure of information about well stimulation treatment are a central aspect of the new requirements under SB 4 and the Division is required to ensure that the public can easily access, search, and aggregate this information on the internet. SB 4's public disclosure requirements are also subject to interpretation in key regards. From a technical standpoint, it is critical that operators provide the required public disclosures in a uniform manner so that the public disclosure systems being developed by the Division will function. The absence of implementing regulations for the public disclosure requirements of SB 4 would result in serious harm to public peace, health and safety, or general welfare because SB 4's mandates

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regarding public access to information about well stimulation treatment cannot be accomplished without uniform requirements for public disclosure of the information.

For these reasons, pursuant to Government Code section 11346.1, subdivision (h), the Department is requesting readoption of the regulations regarding the interim certificate of compliance process for well stimulation treatment as emergency regulations.

AUTHORITY AND REFERENCE

Pursuant to the authority vested by Sections 3013, 3160 and 3161 of the Public Resources Code, and to implement, interpret or make specific Sections 3106, 3150, 3151, 3152, 3153, 3154, 3156, 3157, 3158, 3159, 3160, 3161 of the Public Resources Code, and Section 10783 of the Water Code, the Department is requesting readoption of changes to Chapter 4 of Division 2 of Title 14 of the California Code of Regulations as follows: adoption of sections 1761, 1780, 1781, 1782, 1783, 1783.1, 1783.2, 1783.3, 1783.4, and 1788.

POLICY STATEMENT OVERVIEW / INFORMATIVE DIGEST

Senate Bill 4 (Pavley, Chapter 313, Statutes of 2013) was signed by Governor Brown on September 20, 2013. The intent of SB 4 is to provide a comprehensive regulatory framework for well stimulation treatments in California. SB 4 requires a permit from the Division of Oil, Gas and Geothermal Resources to conduct well stimulation. The permit application must include detailed information about the fluids to be used, a ground water monitoring plan, and a water management plan. Copies of an approved permit must be sent to neighboring property owners and tenants, and water well testing must be provided upon request. SB 4 requires the Division to prepare regulations to ensure that well stimulation is done safely and to require detailed public disclosure about the well stimulation. The Division must develop an internet website to facilitate public disclosure of well stimulation information, and the website must allow the public to easily search and aggregate the information.

SB 4 requires the Division to prepare an environmental impact report, consistent with the California Environmental Quality Act, addressing the practice of well stimulation in California. Additionally, SB 4 requires the Natural Resources Agency to complete an independent scientific study on well stimulation treatments, and the State Water Resources Control Board to develop groundwater modeling criteria and implement groundwater monitor programs.

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Additionally, SB 4 includes Public Resources Code section 3161, which provides for an interim grace period from SB 4's permitting requirement until the new regulations required under SB 4 are in effect. Section 3161, subdivision (b), directs the Division to allow well stimulation treatment while the regulations are being developed, provided that the operator certifies compliance with specified requirements in SB 4.

Well stimulation is a short term and non-continual process designed to enhance oil and gas production or recovery. Initially, the Department's rulemaking effort had focused on one specific form of well stimulation: hydraulic fracturing. Hydraulic fracturing is the high-pressure injection of a mix of fluids and proppants into an oil or gas reservoir. The mix, injected under pressure, fractures the reservoir rock. When the fluids are removed, the proppants keep open the cracks left by the fracturing, allowing oil or natural gas to flow back to the well. Fracturing the rock is necessary to extract oil or natural gas from formations in which the pore space in the rock making up the oil or natural gas reservoir is too tight to allow the flow of fluids or gasses to the well.

With the increased use of the practice in other parts of the country, public scrutiny of hydraulic fracturing has become as common as the practice itself. Public concern over a perceived lack of regulation has become widespread, highlighted by various documentaries, studies, reports, and proposed legislation, at both the federal and state level.

SB 4 began as a bill to regulate hydraulic fracturing, but was expanded to include all forms of well stimulation due in part to lack of public information about these procedures and new information about oil reserve estimates in areas of the state not previously subject to widespread oil recovery activity, such as the Monterey Shale.

Existing Law

All oil and gas wells drilled and constructed in California must adhere to strict requirements. As specified in Public Resources Code, Division 3, Chapter 1, section 3106, the Department's Division of Oil, Gas, and Geothermal Resources (Division) regulates oil, gas, and geothermal well operations throughout the State. Public Resources Code section 3106 requires the Division supervise the drilling, operation, and abandonment of oil and gas wells "so as to prevent, as far as possible, damage to life, health, property, and natural resources" Also included in Public Resources Code section 3106 is the authority to allow, with Division approval and oversight, the oil and gas industry to "utilize all methods and practices known to the oil industry for the purpose of increasing the ultimate recovery of underground hydrocarbons." Essentially, Public Resources Code section 3106 mandates the Division to find a balance between health and safety, and the recovery of underground hydrocarbons.

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In accordance with these statutory mandates, the Division has numerous existing regulations regarding oil and gas operations in California. These regulations include requirements regarding the protection of underground and surface water; testing and monitoring to ensure the integrity of the well casing; the cement used to secure the well casing inside the bore hole; the cement and equipment used to seal off the well from underground zones bearing fresh water, and other hydrocarbon resources; and minimum maintenance requirements for oil and gas production facilities. These requirements provide a first line of protection from potential damage caused by all aspects of oil and gas production, including well stimulation.

SB 4 complements the existing rules that require some of the strongest well construction and operation standards in the nation by requiring further safeguards to public health and safety and the environment regarding well stimulation treatment.

Under the mandates of SB 4, the Department has already commenced the rulemaking process for the proposed permanent SB 4 Well Stimulation Treatment Regulations. The notice of that proposed rulemaking action was sent to interested parties and was posted on the Notice Register on October 15, 2013. As required by SB 4, the permanent regulations will be effective on January 1, 2015. Information about those proposed regulations can be found on the Department's public website at http://www.conservation.ca.gov/index/Pages/prpsregs.aspx.

Changes in Readopted Interim Regulations

The Department has adopted interim regulations by emergency rulemaking and is now requesting readoption of that emergency rulemaking action. Minor revisions are being made to the interim regulations upon readoption, but the readopted interim regulations are substantially equivalent to the emergency regulations that were initially adopted. The revisions to the emergency regulations are as follows:

Section 1783, subdivision (a), is revised to incorporate by reference an updated
version of the Interim Well Stimulation Treatment Notice form. The newly
incorporated version is the 7/14 version.
Section 1783.1, subdivision (b)(5), is revised to replace the term "water well" with
the term "water." This revision is made to reflect the fact that Public Resources
Code section 3160, subdivision (d)(7) provides for sampling and testing of
surface waters as well as water wells.
Section 1788, subdivision (b), is revised to require that information posted to the
Chemical Disclosure Registry is also provided directly to the Division on the Well
Stimulation Treatment Disclosure Reporting Form.

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Interim Well Stimulation Treatment Notice Form (7/14 version) is incorporated by reference. This updated version of the form specifies that information about directionally or horizontally drilled wells must be provided in an attachment to the notice, as specified in Section 1783.1, subdivision (a)(9); replaces the term "water well" with "water," consistent with the revision to Section 1783.1, subdivision (b)(5); provides room for printed name and signature of reviewing Division staff; and modifies format for ease of use.

Interim Regulations

The objective of the interim regulations is to implement the requirement under Public Resources Code section 3161 to allow well stimulation treatment while the permanent well stimulation treatment regulations are being developed, provided that the operator certifies compliance with specified requirements in SB 4. In addition to achieving the statutory goal of Public Resources Code section 3161, the benefit of the interim regulations is that they will supplement the Division's current oil and gas regulatory framework with regulations specific to well stimulation treatment and will further the statutory mandate under Public resources Code section 3106 to prevent, as far as possible, damage to life, health, property, and natural resources.

The interim regulations establish procedures and requirements for operators providing written notice of well stimulation treatment and certifications of compliance, as required under Public Resources Code section 3161. The interim regulations provide necessary definitions, including clarification of the definition of "well stimulation treatment." The interim regulations address the distinction between well stimulation treatment and other routine operations; the distinction between well stimulation and underground injection projects; and the acid concentration threshold at which an acid matrix stimulation treatment is subject to the requirements of SB 4. The interim regulations implement the neighbor notification and water well testing requirements of Public Resources Code section 3160, subdivision (d)(6) and (7). The interim regulations provide interim model groundwater monitoring criteria for groundwater sampling, testing, and monitoring related to well stimulation that is conducted prior to the finalization of model groundwater monitoring criteria by the State Water Resources Control Board. The interim regulations implement the public disclosure requirements of Public Resources Code section 3160, subdivisions (b) and (g). The interim regulations provide general requirements for well stimulation treatment. These objectives are discussed further below.

The benefit of the interim regulations regarding written notice and certifications of compliance prior well stimulation treatment is that clear procedures and timeframes will be established and understood by the regulated industry and the general public.

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The Interim regulations address the difference between well stimulation and underground injection projects. The objective of the interim regulations is to define the two separate terms and clarify that both are subject to two distinct regulatory frameworks. The benefit of the interim regulation is clarity for the Division, operators, and the public regarding which set of regulations oversee a specified oil and gas operation.	
The interim regulations address the specified acid concentration threshold at which the regulations are applicable; the point at which well stimulation treatment begins and ends, for purposes of the regulations; and the distinction between well stimulation treatment requirements, and underground injection project requirements. The objective of the interim regulation is to establish the necessary parameters for the requirements of the proposed regulations. The benefit of the interim regulation is clarifor the Division, operators, and the public regarding which set of regulations oversee a specified oil and gas operation.	ity
☐ The interim regulations include general requirements for well stimulation treatment that to ensure best practices and existing requirements are adhered to with regards to the following:	
☐ Effective cementing of the well;	
 Isolation of the productive zone; Testing and maintenance to ensure mechanical integrity of the wellbore; 	
□ Proper rigging and testing of surface equipment;	
 Appropriate well stimulation treatment fluid concentrations; and Updating the Spill Contingency Plan. 	
☐ Updating the Spill Contingency Plan.	

These general requirements will have the benefit of ensuring integrity of wells and well casings, and geologic and hydrologic isolation.

CONSISTENCY WITH FEDERAL STATUTE AND REGULATION

The federal Bureau of Land Management (BLM) is in the process of developing regulations regarding well stimulation treatment on federal and Indian lands. Operators with leases on federal lands must comply with both BLM's regulations and with state operating requirements. The Department is in regular dialogue with BLM for the purpose of ensuring harmonized and efficient implementation of the two agencies'

respective regulations. The Department will continue to work with BLM to ensure that the well stimulation regulations are compatible.

The U.S Safe Drinking Water Act (SDWA) mandates the protection of underground sources of drinking water from endangerment related to underground injection activities (42 U.S.C. § 1421(b)(1)). The Underground Injection Control (UIC) Program requirements promulgated under SDWA authority and codified at 40 CFR Parts 124 and 144 through 148 create a regulatory framework to ensure protection of current and future USDWs from endangerment. Underground injection of fluids through wells is subject to the requirements of the SDWA except where specifically excluded by the statute. In the 2005 Energy Policy Act, Congress revised the SDWA definition of "underground injection" to specifically exclude from UIC regulation the "underground injection of fluids or propping agents (other than diesel fuels) pursuant to hydraulic fracturing operations related to oil, gas, or geothermal production activities" (42 U.S.C. § 1421(d)(1)(B)). UIC regulations further provide that "[a]ny underground injection, except into a well authorized by rule or except as authorized by permit issued under the UIC program, is prohibited" (40 CFR 144.11).

The general exclusion of hydraulic fracturing from the SDWA in no way precludes the state from regulating hydraulic fracturing or any other form of well stimulation treatment. To the extent that the SDWA does apply, the interim regulations are consistent with the federal law and the interim regulations will effectively prevent well stimulation treatment from endangering underground sources of drinking water.

CONSISTENCY WITH EXISTING STATE REGULATIONS

The interim regulations reflect extensive consultation with other state agencies with authority over aspects of oil and gas production operations. The interim regulations are intended to dovetail with the requirements implemented by other state agencies. The interim regulations are not inconsistent or incompatible with existing state regulations.

LOCAL MANDATE

The interim regulations do not impose a mandate on local agencies or school districts.

FISCAL IMPACT

This interim regulations do not impose costs on any local agency or school district for which reimbursement would be required pursuant to Part 7 (commencing with Section 17500) of Division 4 of the Government Code. This interim regulations do not impose

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other nondiscretionary cost or savings on local agencies. This interim regulations do not result in any cost or savings in federal funding to the state.

COST OR SAVINGS TO STATE AGENCIES

The Department estimates that implementation of the requirements in the interim regulations will result in additional expenditures of approximately \$373,000 in the current State Fiscal Year. It is anticipate that the Department will be able to absorb these additional costs within its existing budgets and resources.

AVAILABILITY OF DOCUMENTS ON THE INTERNET

The proposed regulatory language for the emergency regulations can be accessed through our website at: http://www.conservation.ca.gov.

If you have any questions regarding the process for the proposed emergency action, please contact Tim Shular, Office of Governmental and Environmental Relations at (916) 322-3080, or by email at DOGGRRegulations@conservation.ca.gov.